PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-371594
(43)Date of publication of application : 26.12.2002

(51)Int.Cl. E02F 9/26

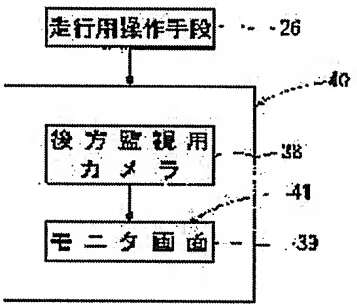
(21)Application number : 2001-182354
(22)Date of filing : 15.06.2001

(71)Applicant : KOMATSU LTD
(72)Inventor : SAWADA HIROSHI
KATO HAJIME
HAGA MASAYA

(54) CONSTRUCTION EQUIPMENT

(57)Abstract:
PROBLEM TO BE SOLVED: To provide construction equipment allowing an operator to increase the safety of working by monitoring the rearward thereof when traveling rearwards.
SOLUTION: This construction equipment comprises a carrier and an upper structure swingably installed on the carrier. A traveling operation means 26 is operated to move the carrier forward and backward. A rear monitoring camera 38 is installed on the upper structure. An image from the rear monitoring camera 38 is displayed on a monitoring screen 39 by operating the traveling operation means 26.

この発明の建設機械の実施の形態を示す簡略ブロック図



26:走行用操作手段　40:後方監視手段
38:後方監視用カメラ　41:モニタ装置
39:モニタ画面

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

* NOTICES *

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1] It has a base carrier (1) and the revolving super-structure (3) with which this base carrier (1) is equipped free [revolution]. It is the construction equipment which performs advance retreat of the above-mentioned base carrier (1) by operating the actuation means for transit (26). The construction equipment characterized by displaying the image from the above-mentioned camera for a back monitor (38) on monitor display (39) when the camera for a back monitor (38) is formed in the above-mentioned revolving super-structure (3) and the above-mentioned actuation means for transit (26) operates it.
[Claim 2] The construction equipment of claim 1 characterized by performing this change by actuation of the above-mentioned actuation means for transit (26) while enabling a change with the 1st mode which displays the image from the above-mentioned camera for a back monitor (38) on the above-mentioned monitor display (39), and the 2nd mode which displays a car-body condition on the above-mentioned monitor display.
[Claim 3] It has a base carrier (1) and the revolving super-structure (3) with which this base carrier (1) is equipped free [revolution]. While being the construction equipment which performs advance retreat of the above-mentioned base carrier (1) by operating the actuation means for transit (26) and forming the camera for a back monitor (38) in the above-mentioned revolving super-structure (3) The construction equipment characterized by forming the switch (48) with which monitor display (39) will be in the image display condition from the above-mentioned camera for a back monitor (38) in the above-mentioned actuation means for transit (26).

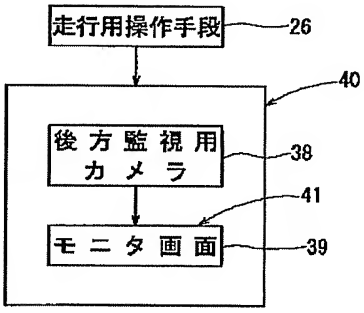
[Translation done.]

* NOTICES *

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

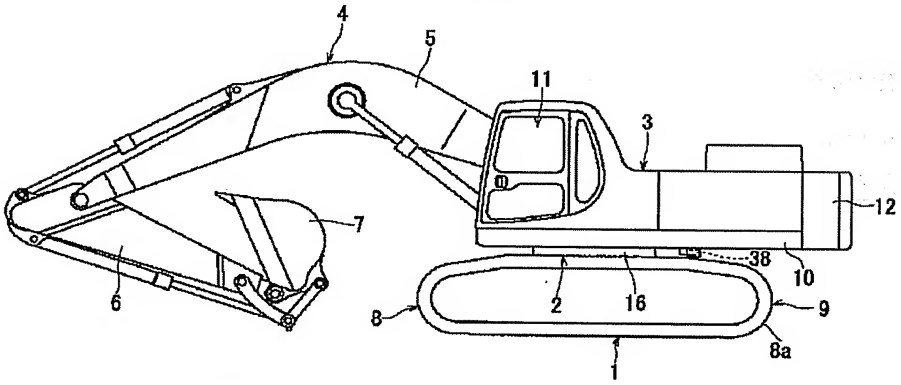
DRAWINGS

[Drawing 1]
この発明の建設機械の実施の形態を示す簡略ブロック図



26:走行用操作手段　40:後方監視手段
38:後方監視用カメラ　41:モニタ装置
39:モニタ画面

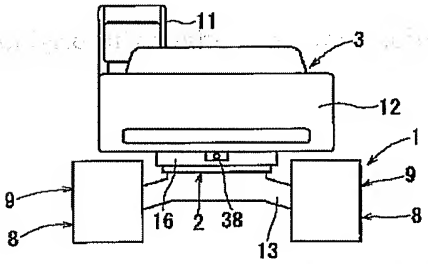
[Drawing 2]
この発明の建設機械の側面図



1:下部走行体　6:アーム　10:レボフレーム
2:旋回機構　7:バケット　11:運転室
3:上部旋回体　8:履帯　12:カウンタウエイト
4:作業機　8a:履帯端部　16:スイングサークル
5:ブーム　9:走行部　38:後方監視用カメラ

[Drawing 3]

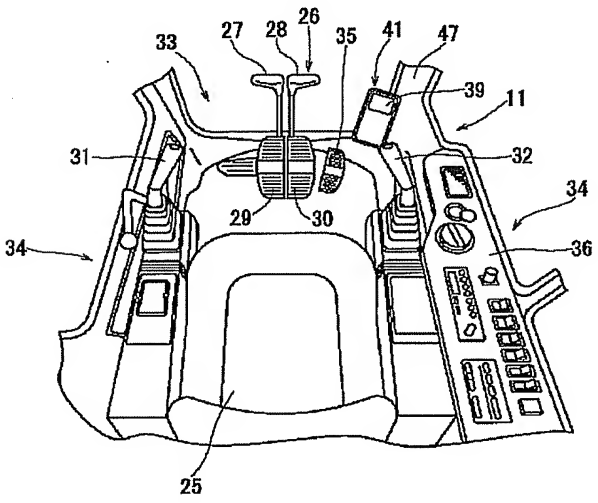
この発明の建設機械の背面図



1:下部走行体
2:旋回機構
3:上部旋回体
8:履帯
9:走行部
11:運転室
12:カウンタウエイト
13:トラックフレーム
16:スイングサークル
38:後方監視用カメラ

[Drawing 4]

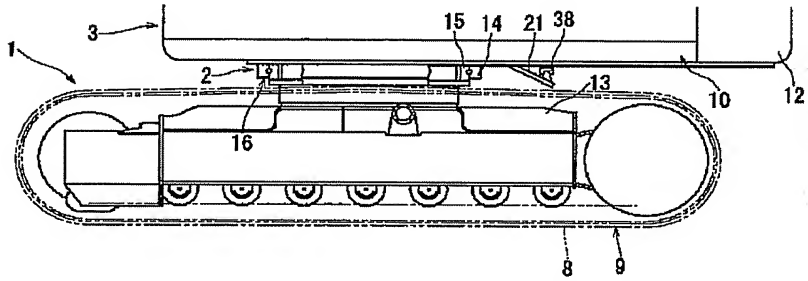
この発明の建設機械の運転室の斜視図



11:運転室
25:運転席
26:走行操作手段
27:走行レバー
28:走行レバー
29:走行ペダル
30:走行ペダル
31:作業機操作レバー
32:作業機操作レバー
33:前窓
34:側方窓
35:ブレーキペダル
36:計器盤
39:モニタ画面
41:モニタ装置
47:縦枠

[Drawing 5]

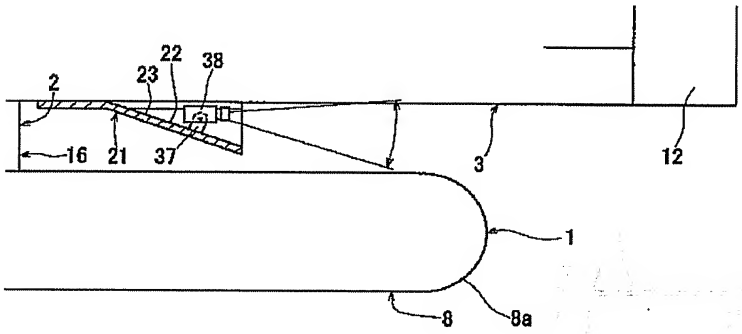
この発明の建設機械の要部側面図



1:下部走行体
2:旋回機構
3:上部旋回体
8:履帯
9:走行部
10:レボフレーム
12:カウンタウエイト
13:トラックフレーム
14:アウタレース
15:インナレース
16:スイングサークル
21:アンダーカバー
38:後方監視用カメラ

[Drawing 8]

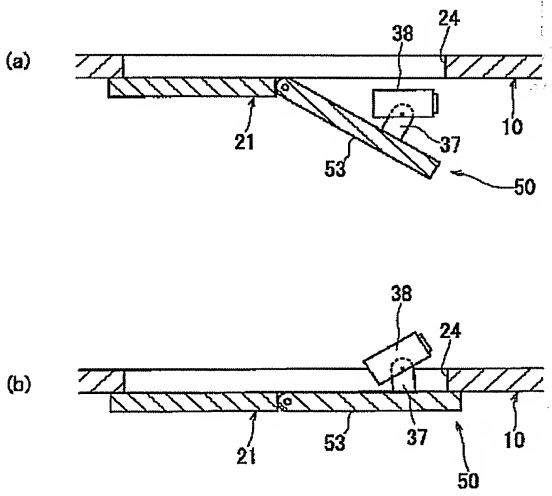
この発明の建設機械の要部簡略断面図



1:下部走行体
2:旋回機構
3:上部旋回体
8:履帯
8a:履帯端部
12:カウンタウエイト
16:スイングサークル
21:アンダーカバー
22:テーパ面
23:凹所
37:支持枠
38:後方監視用カメラ

[Drawing 12]

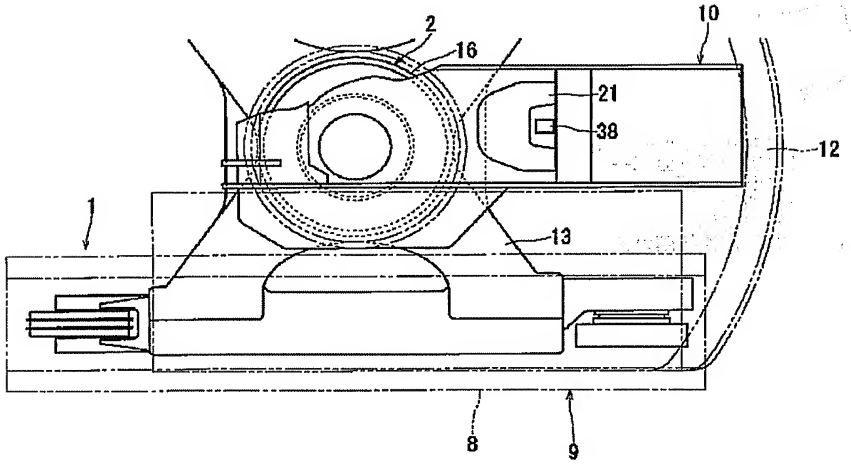
この発明の建設機械の別の実施の形態を示す要部断面図



10:レボフレーム
21:アンダーカバー
24:開口部
37:支持枠
38:後方監視用カメラ
50:支持手段
53:受け部材

[Drawing 6]

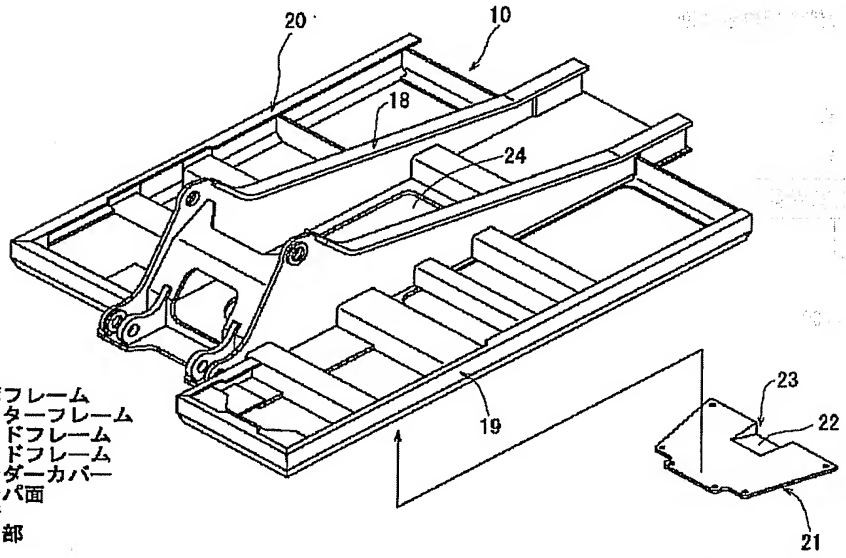
この発明の建設機械の要部平面図



1:下部走行体
2:旋回機構
8:履帯
9:走行部
10:レボフレーム
12:カウンタウエイト
13:トラックフレーム
16:スイングサークル
21:アンダーカバー
38:後方監視用カメラ

[Drawing 7]

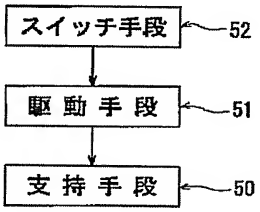
この発明の建設機械のレボフレームの斜視図



10:レボフレーム
18:センターフレーム
19:サイドフレーム
20:サイドフレーム
21:アンダーカバー
22:テーパ面
23:凹所
24:開口部

[Drawing 13]

この発明の発明の別の実施の形態の簡略ブロック図

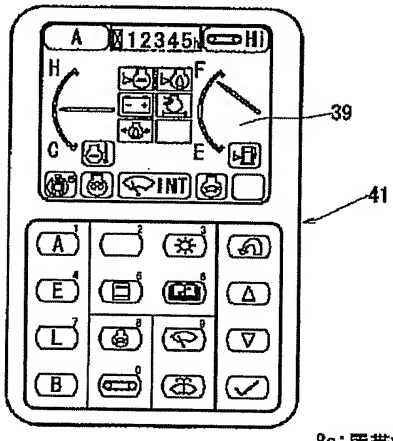


50:支持手段
51:駆動手段
52:スイッチ手段

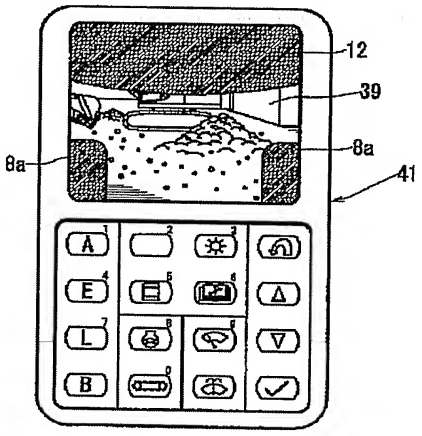
[Drawing 9]

この発明の建設機械のモニタ画面の説明図

(a)

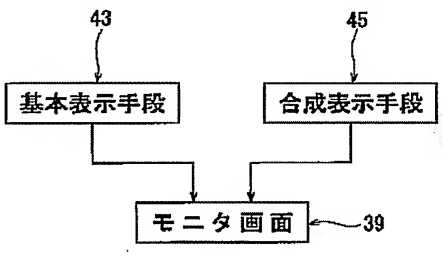


(b)



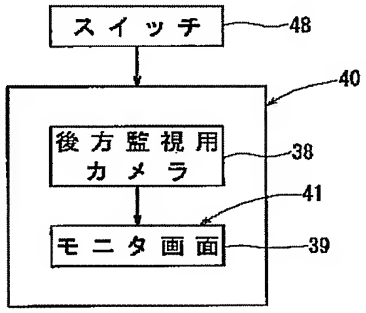
8a:履帯端部
12:カウンタウエイト
39:モニタ画面
41:モニタ装置

[Drawing 10]
この発明の建設機械のモニタ装置の制御部の簡略ブロック図



39:モニタ画面
43:基本表示手段
45:合成表示手段

[Drawing 11]
この発明の建設機械の他の実施の形態を示す簡略ブロック図



38:後方監視用カメラ
39:モニタ画面
40:後方監視手段
41:モニタ装置
48:スイッチ

[Translation done.]